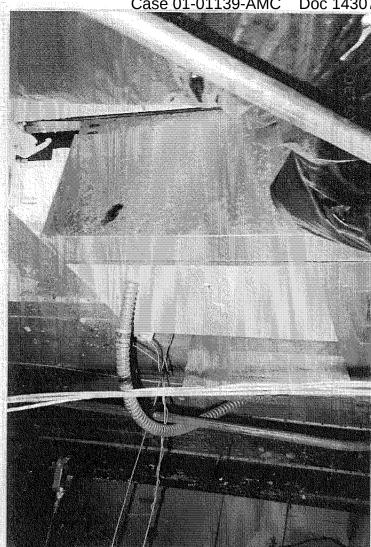
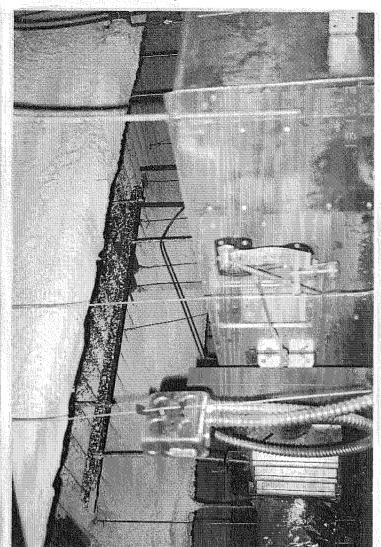
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00396 Spectra M40762-022 Chrysotile Str #10 00397 Spectra M40762-022 Chrysotile Str #19 00398 Spectra M40762-022 Chrysotile Str #29 TEM Dust Analysis M40762 023 Portland State University and Oregon State at Eugene TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene		
00397 Spectra M40762-022 Chrysotile Str #19 00398 Spectra M40762-022 Chrysotile Str #29 TEM Dust Analysis M40762 023 Portland State University and Oregon State at Eugene TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene		
00398 Spectra M40762-022 Chrysotile Str #29 TEM Dust Analysis M40762 023 Portland State University and Oregon State at Eugene TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene		
00399 TEM Dust Analysis M40762 023 Portland State University and Oregon State at Eugene TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene		
Portland State University and Oregon State at Eugene TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene	00398	
00400 TEM Dust Analysis M40762 024 Portland State University and Oregon State at Eugene Tem Dust Analysis M40762 024 Portland State University and Oregon State at Eugene	00399	·
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Portland State University and Oregon State at Eugene	00400	
TEM Duct Applying M40762 025	00-100	
TRIVITY -	00401	TEM Dust Analysis M40762 025
Portland State University and Oregon State at Eugene		Portland State University and Oregon State at Eugene

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	Portland State University and Oregon State at Eugene
00403	TEM Dust Analysis M40762 027
	Portland State University and Oregon State at Eugene
00404	TEM Dust Analysis M40762 028
00404	Portland State University and Oregon State at Eugene
00405	TEM Dust Analysis M40762 029
00405	Portland State University and Oregon State at Eugene
00406	TEM Dust Analysis M40762 030
00400	Portland State University and Oregon State at Eugene
00407	TEM Dust Analysis M40762 031
00407	Portland State University and Oregon State at Eugene
00408	Continuation of TEM Dust Analysis M40762 031
00400	Portland State University and Oregon State at Eugene
00409	Spectra M40762-031 Chrysotile Str #1
00410	Spectra M40762-031 Chrysotile Str #2
00411	Spectra M40762-031 Chrysotile Str #3
00412	Spectra M40762-031 Chrysotile Str #4
00413	Spectra M40762-031 Chrysotile Str #5
00414	Spectra M40762-031 Chrysotile Str #6
00415	Spectra M40762-031 Chrysotile Str #7
00416	Spectra M40762-031 Chrysotile Str #8
00417	Spectra M40762-031 Chrysotile Str #9
00418	Spectra M40762-031 Chrysotile Str #10
00419	Spectra M40762-031 Chrysotile Str #20
00420	Spectra M40762-031 Chrysotile Str #30
00421	TEM Dust Analysis M40762 032
	Portland State University and Oregon State at Eugene
00422	Continuation of TEM Dust Analysis M40762 032
	Portland State University and Oregon State at Eugene
00423	Continuation of TEM Dust Analysis M40762 032
	Portland State University and Oregon State at Eugene
00424	Continuation of TEM Dust Analysis M40762 032
	Portland State University and Oregon State at Eugene
00425	Continuation of TEM Dust Analysis M40762 032
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00426	Continuation of TEM Dust Analysis M40762 032
	Portland State University and Oregon State at Eugene Continuation of TEM Dust Analysis M40762 032
00427	Portland State University and Oregon State at Eugene
00428	Spectra M40762-032 Chrysotile Str #1
00428	M40762-032 Chrysotile Structure #1
00429	Verification of Chrysotile Diffraction Patterns M40762-032
00430	Spectra M40762-032 Chrysotile Str #2
00431	Spectra M40762-032 Chrysotile Str #3
00432	Spectra M40762-032 Chrysotile Str #4
00433	Spectra M40762-032 Chrysotile Str #5
00435	Spectra M40762-032 Chrysotile Str #6
00436	Spectra M40762-032 Chrysotile Str #7
00437	Spectra M40762-032 Chrysotile Str #8
00438	Spectra M40762-032 Chrysotile Str #9
00439	Spectra M40762-032 Chrysotile Str #10
00433	Spectra M40762-032 Chrysotile Str #20
00441	Spectra M40762-032 Chrysotile Str #30
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00442	Spectra M40762-032 Chrysotile Str #40
00443	Spectra M40762-032 Chrysotile Str #50
00444	Spectra M40762-032 Chrysotile Str #60
00445	Spectra M40762-032 Chrysotile Str #70
00446	Spectra M40762-032 Chrysotile Str #80
00447	Spectra M40762-032 Chrysotile Str #90
00448	Spectra M40762-032 Chrysotile Str #100
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00450	Spectra M40762-032 Chrysotile Str #120
00451	Spectra M40762-032 Chrysotile Str #130
00452	TEM Dust Analysis M40762 033
00.02	Portland State University and Oregon State at Eugene
00453	Continuation of TEM Dust Analysis M40762 033
	Portland State University and Oregon State at Eugene
00454	Spectra M40762-033 Chrysotile Str #1
00455	Spectra M40762-033 Chrysotile Str #2
00456	Verification of Chrysotile Diffraction Patterns M40762-033 Str #2
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00462	Verification of Zero Degree Amphibole Diffraction Patterns M40762-033 Str #7
00463	Spectra M40762-033 Chrysotile Str #8
00464	Spectra M40762-033 Chrysotile Str #9
00465	Spectra M40762-033 Chrysotile Str #10
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00467	TEM Dust Analysis M40762 034
00107	Portland State University and Oregon State at Eugene
00468	TEM Dust Analysis M40762 035
	Portland State University and Oregon State at Eugene
00469	Spectra M40762-035 Chrysotile Str #1
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00471	Spectra M40762-035 Tremolite Str #3
00472	Spectra M40762-035 Chrysotile Str #4
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00474	Spectra M40762-035 Chrysotile Str #6
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00476	TEM Dust Analysis M40762 036
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00477	Continuation of TEM Dust Analysis M40762 036
	Portland State University and Oregon State at Eugene
00478	Spectra M40762-036 Chrysotile Str #1
00479	Spectra M40762-036 Chrysotile Str #2
00480	Spectra M40762-036 Chrysotile Str #3
00481	Spectra M40762-036 Chrysotile Str #4
00482	Spectra M40762-036 Chrysotile Str #5
00483	Spectra M40762-036 Chrysotile Str #6
00484	Spectra M40762-036 Chrysotile Str #7
00485	Spectra M40762-036 Chrysotile Str #8
00486	Spectra M40762-036 Chrysotile Str #9
00487	Spectra M40762-036 Chrysotile Str #10
00488	TEM Dust Analysis M40762 037
	Portland State University and Oregon State at Eugene

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00489	Portland State University and Oregon State at Eugene
00490	Spectra M40762-037 Chrysotile Str #1
00490	Spectra M40762-037 Chrysotile Str #2
_	Spectra M40762-037 Chrysotile Str #3
00492	
00493	Spectra M40762-037 Chrysotile Str #4
00494	Spectra M40762-037 Chrysotile Str #5
00495	Spectra M40762-037 Chrysotile Str #6
00496	Spectra M40762-037 Chrysotile Str #7
00497	Spectra M40762-037 Chrysotile Str #8
00498	Spectra M40762-037 Chrysotile Str #9
00499	Spectra M40762-037 Chrysotile Str #10
00500	Spectra M40762-037 Chrysotile Str #20
00501	TEM Dust Analysis M40762 038
00001	Portland State University and Oregon State at Eugene
00502	Continuation of TEM Dust Analysis M40762 038
00302	Portland State University and Oregon State at Eugene
00503	Continuation of TEM Dust Analysis M40762 038
00503	Portland State University and Oregon State at Eugene
00504	Continuation of TEM Dust Analysis M40762 038
00504	Portland State University and Oregon State at Eugene
00505	Spectra M40762-038 Chrysotile Str #1
00506	Spectra M40762-038 Chrysotile Str #2
00507	Spectra M40762-038 Chrysotile Str #3
00508	Spectra M40762-038 Chrysotile Str #4
00509	Spectra M40762-038 Chrysotile Str #5
00510	Spectra M40762-038 Chrysotile Str #6
00511	Spectra M40762-038 Chrysotile Str #7
00512	Spectra M40762-038 Chrysotile Str #8
00513	Spectra M40762-038 Chrysotile Str #9
00514	Spectra M40762-038 Chrysotile Str #10
00515	Spectra M40762-038 Chrysotile Str #20
00516	Spectra M40762-038 Chrysotile Str #30
00517	Spectra M40762-038 Chrysotile Str #40
00518	Spectra M40762-038 Chrysotile Str #50
00519	Spectra M40762-038 Chrysotile Str #60
	TEM Dust Analysis M40762 039
00520	Portland State University and Oregon State at Eugene
	Continuation of TEM Dust Analysis M40762 039
00521	Portland State University and Oregon State at Eugene
	Continuation of TEM Dust Analysis M40762 039
00522	Portland State University and Oregon State at Eugene
	Continuation of TEM Dust Analysis M40762 039
00523	Portland State University and Oregon State at Eugene
00524	Continuation of TEM Dust Analysis M40762 039
	Portland State University and Oregon State at Eugene
00525	Continuation of TEM Dust Analysis M40762 039
	Portland State University and Oregon State at Eugene
00526	Spectra M40762-039 Chrysotile Str #1
00527	Spectra M40762-039 Chrysotile Str #2
00528	Spectra M40762-039 Chrysotile Str #3
00529	Spectra M40762-039 Chrysotile Str #4
00530	Spectra M40762-039 Chrysotile Str #5
00531	M40762-039 Chrysotile Structure #5

D	THE DESCRIPTION OF THE PROPERTY OF THE PROPERT
Page No.	Description MAGGO 020 Chargestile Diffraction Structure #5
00532	M40762-039 Chrysotile Diffraction Structure #5
00533 00534	Verification of Chrysotile Diffraction Patterns M40762-039 Str #5 Spectra M40762-039 Chrysotile Str #6
00535	M40762-039 Chrysotile Structure #6
00536	Spectra M40762-039 Chrysotile Str #7
00537	Spectra M40762-039 Chrysotile Str #8
00538	Spectra M40762-039 Chrysotile Str #9
00539	Spectra M40762-039 Chrysotile Str #10
00540	Spectra M40762-039 Chrysotile Str #20
00541	Spectra M40762-039 Tremolite Str #27
00542	M40762-039 Tremolite Structure #27
00543	M40762-039 Tremolite Diffraction Structure #27
00544	Verification of Zero Degree Amphibole Diffraction Patterns M40762-039 Str #27
00545	Spectra M40762-039 Chrysotile Str #30
00546	Spectra M40762-039 Chrysotile Str #40
00547	Spectra M40762-039 Chrysotile Str #50
00548	Spectra M40762-039 Chrysotile Str #60
	TEM Dust Analysis M40762 040
00549	Portland State University and Oregon State at Eugene
00550	Continuation of TEM Dust Analysis M40762 040
00550	Portland State University and Oregon State at Eugene
00551	Continuation of TEM Dust Analysis M40762 040
00001	Portland State University and Oregon State at Eugene
00552	Continuation of TEM Dust Analysis M40762 040
00002	Portland State University and Oregon State at Eugene
00553	Continuation of TEM Dust Analysis M40762 040
	Portland State University and Oregon State at Eugene
00554	Spectra M40762-040 Chrysotile Str #1
00555	Spectra M40762-040 Chrysotile Str #2
00556	Spectra M40762-040 Chrysotile Str #3
00557	Spectra M40762-040 Chrysotile Str #4
00558	Spectra M40762-040 Chrysotile Str #5 Spectra M40762-040 Chrysotile Str #6
00559 00560	Spectra M40762-040 Chrysotile Str #6 Spectra M40762-040 Chrysotile Str #7
00561	Spectra M40762-040 Chrysotile Str #8
00562	Spectra M40762-040 Chrysotile Str #9
00563	Spectra M40762-040 Chrysotile Str #10
00564	Spectra M40762-040 Chrysotile Str #20
00565	Spectra M40762-040 Chrysotile Str #30
00566	Spectra M40762-040 Chrysotile Str #40
00567	Spectra M40762-040 Chrysotile Str #50
00568	Spectra M40762-040 Chrysotile Str #60
00569	Spectra M40762-040 Chrysotile Str #70
00570	Spectra M40762-040 Chrysotile Str #80
00571	TEM Dust Analysis M40762 041
00571	Portland State University and Oregon State at Eugene
00572	TEM Dust Analysis M40762 042
00372	Portland State University and Oregon State at Eugene
00573	Continuation of TEM Dust Analysis M40762 042
	Portland State University and Oregon State at Eugene
00574	Spectra M40762-042 Chrysotile Str #1
00575	Spectra M40762-042 Chrysotile Str #2
00576	Spectra M40762-042 Chrysotile Str #3
00577	M40762-042 Chrystotile Diffraction Structure #3

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00579	Spectra M40762-042 Chrysotile Str #4
00580	Spectra M40762-042 Chrysotile Str #5
00581	Spectra M40762-042 Chrysotile Str #6
00582	Spectra M40762-042 Chrysotile Str #7
00583	Spectra M40762-042 Chrysotile Str #8
00584	Spectra M40762-042 Chrysotile Str #9
00585	Spectra M40762-042 Chrysotile Str #10
00586	TEM Dust Analysis M40762 043
00566	Portland State University and Oregon State at Eugene
00587	Continuation of TEM Dust Analysis M40762 043
00367	Portland State University and Oregon State at Eugene
00588	Continuation of TEM Dust Analysis M40762 043
	Portland State University and Oregon State at Eugene
00589	Spectra M40762-043 Chrysotile Str #1
00590	Spectra M40762-043 Chrysotile Str #2
00591	Spectra M40762-043 Chrysotile Str #3
00592	Spectra M40762-043 Chrysotile Str #4
00593	Spectra M40762-043 Chrysotile Str #5
00594	Spectra M40762-043 Chrysotile Str #6
00595	Spectra M40762-043 Chrysotile Str #7
00596	Spectra M40762-043 Chrysotile Str #8
00597	Spectra M40762-043 Chrysotile Str #9
00598	Spectra M40762-043 Chrysotile Str #10
00599	Spectra M40762-043 Chrysotile Str #20
00600	Spectra M40762-043 Chrysotile Str #30
00601	Spectra M40762-043 Chrysotile Str #40
00602	Spectra M40762-043 Chrysotile Str #50 TEM Dust Analysis M40762 044
00603	Portland State University and Oregon State at Eugene
	Continuation of TEM Dust Analysis M40762 044
00604	Portland State University and Oregon State at Eugene
00605	Spectra M40762-044 Chrysotile Str #1
00606	M40762-044 Chrysotile Structure #1
00607	Spectra M40762-044 Chrysotile Str #2
00608	Spectra M40762-044 Chrysotile Str #3
00609	Spectra M40762-044 Chrysotile Str #4
00610	Spectra M40762-044 Chrysotile Str #5
00611	Spectra M40762-044 Chrysotile Str #6
00612	Spectra M40762-044 Chrysotile Str #7
00613	Spectra M40762-044 Chrysotile Str #8
00614	Spectra M40762-044 Chrysotile Str #9
00615	Spectra M40762-044 Chrysotile Str #10
00616	Spectra M40762-044 Chrysotile Str #20

APPENDIX C

MAS, INC. LABORATORY REPORTS FOR DEBRIS SAMPLES, ONE BULK SAMPLE, AND ONE PASSIVE DUST SAMPLE

Proj#-Spl#:	M40763 - 001	Analyst W.B. Egeland Date: 10/11/2006
ClientName: Dies	s and Hile, LLP	ClientSpl: Debris 01
ocation: Por	tland State Univ Cramer Hall	I Rm 494
Type_Mat: fire	proofing debris	
Gross Light tai	n. Flakes and books as well	as fiber bundles throughout a fine matrix.
	OPTICAL DATA	A FOR ASBESTOS IDENTIFICATION
Morphology	wavy	
Pleochroism	none	
Refract Index	1.550/1.545	
Sign	positive	
Extinction	parallel	77
Birefringence	low	
Melt	no	
Fiber Name	Chrysotile	
ASBESTOS M	INERALS	EST. VOL. %
Amosite Crocidolite Tremolite/Actin Anthophyllite	olite	. 12
OTHER FIBRO	OUS COMPONENTS	
NON FIBROUS	COMPONENTS	
Vermiculite		35
Binder		53
	nce: Weak and isolated.	
Binder Descript	ion: Gypsum and occasiona	al carbonate in a fine-grained aggregate
Comme	nts: No starch observed	

Proj#-Spi#:	M40763 - 002	Analyst Paul Hess		Date:	10/11/2006
ClientName: Dies an	d Hile, LLP		ClientSpi:	Debris 02	2
Location: Portlan	d State Univ Cramer Hall	outside rm 241			
Type_Mat: fireproo	fing debris				
Gross Light tan. F Visual:	lakes and books as well a				
	OPTICAL DATA	FOR ASBESTOS ID	ENTIFICATI	ON	
Morphology w	avy				
	one			t	
Refract Index 1.	550/1.545				
Sign po	ositive	-			
	arallel			<u> </u>	
Birefringence lo	w	-			
Melt no	>				
Fiber Name Cl	hrysotile				
ASBESTOS MINE	RALS	EST. VOL.	%		
Chrysotile Amosite Crocidolite Tremolite/Actinolite Anthophyllite	e	12			
OTHER FIBROUS					
NON FIBROUS CO	OMPONENTS				
Vermiculite		35			
Binder		53			
Effervescence	: Weak and isolated.				
Binder Description	Gypsum and occasiona	l carbonate in a fine-	grained aggr	egate	
Comments	No starch apparent with observed.	iodine test. White pa	int with gran	ules and I	ine crunchy pellets

Proj#-Spl#:	M40763 - 003	Analyst Paul Hess	Date: 10/11/2006					
ClientName: Di	ies and Hile, LLP	ClientSpl	: Debris 03					
Location: Po	ortland State Univ Cramer Ha	Il basement corridor m 17						
Type_Mat: fir	t: fireproofing debris							
-		l as fiber bundles throughout a fine						
Morphology	y wavy							
Pleochroisn	n none							
Refract Index	x 1.550/1.545							
Sigr	n positive							
Extinction	n parallel							
Birefringence	e low							
Mei	t no							
Fiber Name	e Chrysotile							
ASBESTOS	MINERALS	EST. VOL. %						
Amosite		12						
	inolite							
Anthophyllite.	44644							
OTHER FIBR	ROUS COMPONENTS							
NON FIBROU	JS COMPONENTS							
	7							
Vermiculite		35						
Binder		53						
Efferveso	ence: Weak and isolated.							
Binder Descri	ption: Gypsum and occasio	nal carbonate in a fine-grained ago	gregate					
Comn	nents: No starch observed							

Proj#-SpI#: N	140763 - <u>004</u> a	Analyst Paul Hess	Date:	10/11/2006
ClientName: Dies and	Hile, LLP	<u>. –</u>	ClientSpl: Debris	04
Location: Portland	State Univ Cramer Hall		***************************************	
Type_Mat particles				
Gross White fine gr Visual:	ained compound with g	ranules		
	OPTICAL DATA	A FOR ASBESTOS IDE	NTIFICATION	
Morphology Pleochroism Refract Index Sign Extinction				
Birefringence				
Melt Fiber Name				
ASBESTOS MINER Chrysotile		EST. VOL. %	_	
NON FIBROUS CO	MPONENTS			
Sand		60		
Binder		40		
Effervescence: Binder Description:			ues	
Comments:	This material is mixed	with the material of M40	0763-004B	

Proj#-Spl#:	M40763 - 004b	Analyst Paul Hess	Date: 10/11/2006					
ClientName: Die	s and Hile, LLP	l: Debris 04						
Location: Por								
*								
	te. Glassy pellets and fibe	r bundles throughout a fine matrix.						
Visual:	T., J.,							
	OPTICAL DA	ATA FOR ASBESTOS IDENTIFICA	TION					
Morphology	wavy	straight						
Pleochroism	none	none						
Refract Index	1.550/1.545	1.618/1.603						
Sign	positive	positive						
Extinction	parallel	parallel						
Birefringence	low	low						
Melt	no	no						
Fiber Name	Chrysotile	Tremolite/Actinolite						
ASBESTOS M	INERALS	EST. VOL. %						
Chrysotile		10						
Amosite								
Crocidolite								
	olite	Trace						
Anthophyllite								
OTHER FIRM	OUS COMPONENTS							
OTTICK FIBRO	JUS COMPONENTS							
		<u> </u>						
	_							

NON FIBROU	S COMPONENTS							
Perlite		65						
	·							
		WW-14						
Dindor		05						
Binder		25						
Effervesce	nce: Moderate.							
Rinder Descrip	Hon: Carbonate fibrous	— talc, and fine-grained aggregate						
omaci Describ	LIOIT, CHIDOTIALE, IIDIOUS	eno, and mie-granieu aggregate						
Cam	ents: No starch observed							
Comme	ino scarcii obselved							
			-					

Proj#-Spl#:	M40763 - 005	Analyst W.B. Egeland Date: 12/28/2006					
ClientName:	Dies and Hile, LLP	ClientSpl: Debris 12					
Location:	Portland State Univ Neuber	rger Hall basement rm 26 top of VAV box					
Type_Mat:	debris						
Gross <u>Lig</u> Visual:	well as fiber bundles throughout a fine matrix.						
	OPTICAL I	DATA FOR ASBESTOS IDENTIFICATION					
Morphol	ogy wavy						
Pleochroi							
Refract Inc							
s	ign positive						
Extinct	ion parallel						
Birefringe	nce low						
R	ilelt no						
Fiber Na	me Chrysotile						
ASBESTO	S MINERALS	EST. VOL. %					
Chrysotile.		10					
-							
Crocidolite							
Tremolite/A	ctinolite						
Anthophyll	ite						
OTHER FI	BROUS COMPONENTS						

NON FIBR	OUS COMPONENTS	·					
Vermiculite		36					
Binder		54					
Efferve	escence: Weak and isolate	d					
Binder Des	cription: Abundant gypsun	n with scattered fine granular minerals throughout					
Cos	mments: No starch observe	ed					
30.							

Proj#-Spl#:	M	140763 - 006	Analyst	W.B. Egeland	Date:	12/28/2006	
ClientName:	Dies and	Hile, LLP	ClientSpl: Debris 13				
Location:	Portland State Univ Smith Memorial basement rm 26 top of ceiling tile						
Type_Mat							
Gross <u>Ligh</u> Visual:	nt tan. Fla	akes and books as well	as fiber bu	indles throughout a	fine matrix.		
		OPTICAL DATA	FOR AS	BESTOS IDENTIFI	CATION		
Morphoic	ogy wav]		7		
Pleochroi			,		1		
Refract Inc	lex 1.5	50/1.545		and the state of t	_		
s	ign pos	itive					
Extinct	ion para	allel					
Birefringer	nce low						
N	l el t no						
Fiber Na	me Chr	ysotile					
ASBESTO:	S MINER	RALS	E	ST. VOL. %			
		************************		12	- -		
		**************	 ,	· · · · · · · · · · · · · · · · · · ·			
Tremolite/A	ctinolite.	*********		***************************************	-		
Anthophylli	ite	************			_		
OTHER FIE	BROUS (COMPONENTS	-		_		
		 		·			
					- -		
					-		
NON FIBRO	ous co	MPONENTS		, , , , , , , , , , , , , , , , , , , ,	_		
Vermiculite				36	-		
					-		
Binder				52	- -		
Efferve	scence:	Weak and isolated.					
Binder Desc	cription:	Abundant gypsum with	scattered	fine granular miner	als througho	ut	
					·. ·		
Con	nments:	No starch observed					

Proj#-Spi#:	N	40763 - 007	Analyst VV.B. Egeland Date: 12/28/2006
ClientName:	Dies and	Hile, LLP	ClientSpl: Debris 10
Location:	Portland	State Univ UCB rm 465	S5N above ceiling below fireproofing
Type_Mat	debris		
Gross Ligh	ht tan. Fla	ial.	Il as fiber bundles throughout a fine matrix. Also light blue fluffy TA FOR ASBESTOS IDENTIFICATION
		0. 110/12 0/11/	The state of the s
Morpholo	ogy wav	у	
Pleochroi	ism non	e	
Refract Inc	dex 1.55	50/1.545	
	-	itive	
Extinct	ion para	allel	
Birefringer	nce low		
N	lelt no		
Fiber Na	me Chr	ysotile	
ASBESTO	S MINER	ALS	EST. VOL. %
-			8

Anthophylli	ite		
OTHER FI	BROUS	COMPONENTS	A CONTRACTOR OF THE CONTRACTOR
Synthetic -melts			33
Synthetic -III	ieus		33
			
NON FIBR	OUS CO	MPONENTS	
	000 00	OIVEIVIO	4-5
Vermiculite			15
Binder			44
Efferve	escence:	Weak and isolated.	
Binder Desc	cription:	Abundant gypsum with	th scattered fine granular minerals throughout
Cor	nments:	Material similar to #6	mixed with clumped synthetic fiber material.

Proj#-Spl#:	M40763 - 008	Analyst W.B. Egeland Date: 12/28/2006					
ClientName:	Dies and Hile, LLP	ClientSpl: Debris 11					
Location:	Portland State Univ UCB rm 308U top of celing tile in NE corner of room						
Type_Mat:	debris						
Gross <u>Lig</u> i Visual:	nt tan. Flakes and books as w	well as fiber bundles throughout a fine matrix.					
	OPTICAL D	ATA FOR ASBESTOS IDENTIFICATION					
Morphol	ogy wavy						
Pleochroi	· · · · · · · · · · · · · · · · · · ·						
Refract Inc	iex 1.550/1.545						
s	ign positive						
Extinct	ion parallel						
Birefringe	nce low						
· ·	felt no						
Fiber Na	me Chrysotile						
ASBESTO	S MINERALS	EST. VOL. %					
		12					
Crocidolite							
Tremolite/A	ctinolite						
Anthophyli	ite						
OTHER FI	BROUS COMPONENTS						
		No. of the State o					
NON FIBR	OUS COMPONENTS	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
Vermiculite		35					
Binder		53					
Efferve	escence: Weak and isolated	<u>. </u>					
Binder Des	cription: Abundant gypsum	with scattered fine granular minerals throughout					
Col	mments: No starch observed	d					

roj#-Spl#:	M40763 - 009	Analyst	W.B. Egeland	Date:	12/28/2006		
ClientName: Dies:	and Hile, LLP		ClientS	ol: Debris	06		
ocation: Portla	and State Univ HPE Stott m	301 from	concrete floor under	fan unit 6	<u> </u>		
ype_Mat debris							
Gross <u>Light tan.</u> Visual;	Flakes and books as well a	as moer bu	indles throughout a Ti	ne matrix.			
TISUAI,							
	ADTION DATE	500.0	250500000000000000000000000000000000000				
	OPTICAL DATA	FOR AS	BESTOS IDENTIFICA	AHON			
Morphology	wavy						
Pleochroism	none						
Refract Index	1.550/1.545						
Sign	positive						
Extinction	parallel						
Birefringence	low						
Melt	no						
Fiber Name	Chrysotile						
ASBESTOS MIN	NERALS	E	EST. VOL. %	*************************************			
Ob461-			12				
			12				
	lite						
OTHER FIBRO	JS COMPONENTS						

NON EIDDOUG	COMPONIENTS	***************************************					
NON FIBROUS	COMPONENTS						
Vermiculite			35				
			•				
Binder	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		53				
	······································	•					
Effervescen	ce: Weak and isolated.						
			· e · · · ·	- 44	4		
Binder Description	on: Abundant gypsum with	scattered	i πne granular mineral	s mrougho	ut		
		<u> </u>					
Campa	ts: No starch observed. S	noradio e	unthatic fibers above	ad in care	No.		
Commen	its: No starter poserved. S	Potadic S	ynuleac libers observ	eu in samp	ric.		
				·	****		

Proj#-Spl#:	M40763 - 010	Analyst	W.B. Egeland	Date:	12/28/2006
ClientName: Dies ar	nd Hile, LLP		ClientSpl:	Debris 0	7
Location: Portlan	nd State Univ HPE Stott top	of metal	duct near fan unit 5		
Type_Mat debris					
			u ,, , , , , , , , , , , , , , , , , ,		
Gross <u>Light tan. I</u> Visual;	Flakes and books as well a	s noer ou	ndies inroughout a line	танх.	
VISUAI.		·····			
	ODTICAL DATA	FOD AC	DESTON IDENTIFICAT	1081	
	OPTICAL DATA	FUR ASI	BESTOS IDENTIFICAT	IOIE	
Morphology w	<i>r</i> avy				
Pleochroism n	one				
Refract Index 1	.550/1.545				
Sign <u>p</u>	ositive				
<u></u>	arallel				
Birefringence	W				
Melt n					
Fiber Name C	hrysotile				
ASBESTOS MINI	ERALS	E	ST. VOL. %		
Chrisofile	*******************************		12		

	te				
OTHER FIREALIS	COMPONENTS				
OTHER FIBROUS	S COMPONENTS				

	····		-		

			· · · · · · · · · · · · · · · · · · ·		
NON FIBROUS C	COMPONENTS				
Vermiculite			35		
Binder			53		
Effervescence	e: Weak and isolated.				
Binder Description	a: Abundant gypsum with	scattered	fine granular minerals	throughou	ıt.
				3.0	
Comments	s: No starch observed. S	poradic s	ynthetic fibers observed	in sampl	e

Proj#-Spl#:	M	40763 - 011	Analyst W.B. Egeland	Date: 12/28/2006
ClientName:	Dies and I	Hile, LLP	ClientSpl:	Debris 08
Location:	Portland S	State Univ HPE rm 30	1 S wall E end base of wall	
Type_Mat	debris			
	ht tan. Fla	kes and books as wel	l as fiber bundles throughout a fine	matrix.
		OPTICAL DAT	A FOR ASBESTOS IDENTIFICAT	TION
Morpholo	ogy wav	y		
Pieochroi	sm none	•		
Refract Inc	dex 1.55	0/1.545		
s	ign posi	tive		
Extinct	ion para	llel		
Birefringe	nce low			
N	flelt no			
Fiber Na	me Chr	/sotile		
ASBESTO	S MINER	ALS	EST. VOL. %	
Chrysotile.	22242244444		12	
Tremolite/A	Actinolite	************		
Anthophyli	ite	*********		
OTHER FI	BROUS (COMPONENTS		
			4	
			MARIEMA AND SANDA CONTROL CONT	
NON FIBR	ous co	MPONENTS		
Vermiculite			35	
VOITHIOGINO				
Binder			53	
Efferve	escence:	Weak and isolated.	-	
Binder Des	cription:	Abundant gypsum wi	th scattered fine granular minerals	throughout
Co	mments:	No starch observed.		
		***************************************		The second secon

Proj#-Spl#:	M ⁴	40763 - 013	Analyst	W.B. Eg	eland	Date:	12/28/2006	
ClientName:	Dies and I	Hile, LLP			ClientSpl:	Debris :	20	
Location:		on Gerlinger Annex o	utside m 3	62 above	ceiling			
Type_Mat:	debris							
	ht tan. Fla	kes and books as we	ll as fiber bu	ındles thr	oughout a fine	matrix.		
	[OPTICAL DAT	A FOR AS	BESTOS	IDENTIFICAT	ION		_
Morphol	ogy wav	у						
Pleochro		3						-
Refract in	dex 1.55	0/1.545						1
8	ign posi	tive						
Extino	tion para	illel					110	
Birefringe	nce low							Ì
ı	Vielt no					<u> </u>		
Fiber Na	ame Chry	/sotile				L		
ASBESTO	S MINER	ALS		EST. VO	L. %			_
Chrysotile	****			12				

Crocidolite	·····	>						
Tremolite/	Actinolite							
Anthophyl	jite							
OTHER F	BROUS	COMPONENTS						

NON FIBE	ROUS CO	MPONENTS						
Vermiculite				36				
	,							
Binder				52				
				-				
Efferv	escence:	Weak and isolated.	_					
Binder De:	scription:	Abundant gypsum w	ith scattere	d fine gra	nular minerals	througho	out	
Co	omments:	No starch observed.						

Proj#-SpI#:	M40763 - 014	Analyst W.B. Egeland Date: 12/28/2006								
ClientName: Dies	and Hile, LLP	ClientSpi: Debris 22								
ocation: Univ	Univ Oregon Oregon Hall rm 256 top of ceiling tile on W side									
Type_Mat debri	s									
		ell as fiber bundles throughout a fine matrix.								
	OPTICAL DA	TA FOR ASBESTOS IDENTIFICATION								
Morphology	wavy									
Pleochroism	none									
Refract Index	1.550/1.545									
Sign	positive									
-	parallel									
Birefringence	low									
Melt	no									
	Chrysotile									
ASBESTOS MII	NERALS	EST. VOL. %								
Chrysofile		12								
	>>>>									
	lite									
		- And the second								
OTHER FIBRO	US COMPONENTS									
NON FIBROUS	COMPONENTS									
Vermiculite		36								
VOITHOUNE										
										
Binder		52								
Bilidei		JZ								
	ce: Weak and isolated.									
Binder Descripti	on: Abundant gypsum v	with scattered fine granular minerals throughout								
Comme	nts: No starch observed									

Proj#-Spl#:	M-	40/63-012	Analyst V	7.B. Egeland	Date:	12/26/2000
ClientName:					pl: Debns 2	21
Location:	Univ Oreg	on Computing Cente	r outside rm 19	33 top of ceiling		
Type_Mat	debris					
	ht tan. Fla	kes and books as we	ll as fiber bund	les throughout a f	ine matrix.	
		OPTICAL DA	TA FOR ASBE	STOS IDENTIFIC	ATION	
Extinct	ism none dex 1.55 ign position para	e 0/1,545 tive				
Birefringence low Melt no						
Fiber Na	me Chr	/sotile				
ASBESTO	S MINER	ALS	ES	T. VOL . %		
Amosite Crocidolite Tremolite/A Anthophyll	Actinolite.	COMPONENTS		12	- - - -	
					- - -	
NON FIBR	ous co	MPONENTS				
Vermiculite				36	.	
	·				,	
Binder				52	•	
		Weak and isolated. Abundant gypsum w	- ith scattered fi	ne granular minera	als througho	out
Co	mments:	No starch observed.				

Proj#-Spl#: M	40/63-015	Anaiyst	vv.b. Egeland	Date:	12/26/2006
ClientName: Dies and	Hile, LLP		ClientSpl	: <u>Bulk-01</u>	
Location: Portland	State Univ Professional S	Schools B	ldg center rm 374		
Type_Mat: ceiling tile	e, small dots, small gouge	es, white	face, cream interior, b	rown back	
Gross Off-white to li	ght tan. Compressed fib	rous.			
	OPTICAL DATA	FOR ASI	BESTOS IDENTIFICA	TION	
Morphology Pleochroism Refract Index Sign Extinction Birefringence Melt					
Fiber Name					
ASBESTOS MINER	RALS		ST. VOL. % BESTOS OBSERVED		
Chrysotile Amosite Crocidolite Tremolite/Actinolite. Anthophyllite					
Min wool -isotropic	COMPONENTS		75		
NON FIBROUS CO	MPONENTS				
			,		
Binder	and the design of the second o		25		
Effervescence:	None,				
Binder Description:	Fine-grained aggregate				
Comments:	No starch observed				



M40763

October 5, 2006

William E. Longo, Ph.D. Materials Analytical Services, Inc. 3945 Lakefield Court Suwanee, GA 30024

> **Oregon Buildings Dust Samples** RE:

Dear Dr. Longo:

Enclosed are 14 debris samples and 1 bulk ceiling tile sample for PLM analysis for asbestos. Also enclosed are 6 bulk samples of dust collected from surfaces below asbestos-containing fireproofing. Also enclosed are 7 tape samples of dust collected from surfaces below asbestos-containing fireproofing. The tape samples were collected according to section 6.3.2 of ASTM method D 6602 (copy attached) and mounted on clear glass slides. Lastly, enclosed is one passive dust sample labeled Comp 18 collected from beneath asbestos-containing fireproofing over an unspecified period of time. Per our telephone discussion on Wednesday I am interested in your characterization of the dust, tape and passive samples for asbestos structures by direct methods to determine if there are unencapsulated fibers or free fibers in the samples. Also enclosed are 8 chain-ofcustody forms and sampling logs describing the sample locations. The invoice for this work should be sent to Mr. Martin Dies, Dies & Hile, LLP, 1601 Rio Grande, Suite 330, Austin, TX 78701. Please do not hesitate to telephone me should you have any questions. Thank you.

Sincerely,

William M. Ewing, CIH

Technical Director

Enclosures

Received 10/6/06 amagasare

1751 McCollum Parkway • Kennesaw, GA 30144-5908 • 770,499.7127 • Fax 770,423.7402

ATLANTA

Corporate Headquarters 3945 Lakefield Court Suwanee, GA 30024 (770) 866-3200 FAX (770) 866-3259



2007.01.11 14:35:24

January 10, 2007

W. M. Ewing Compass Environmental 1751 McCollum Parkway Kennesaw, Georgia 30144

Re: Oregon Dust Sample Results for Comp 18

Dear Mr. Ewing,

Attached is the laboratory analysis report for the above referenced dust sample submitted on October 6, 2006. The sample was prepared by rinsing the interior of the "RJ Lee Passive Dust Sampler" with 50/50 alcohol/water solution and then following the preparation and analysis steps describe in ASTM Method 5557-03.

-05'00'

Please call me at 770-866-3235 should you have any questions.

Sincerely,

Michael D. Mount, CIH, OHST

Michael D. Mount

EM Lab Manager

Encl.

TEM DUST ANALYSIS M40765 008

	and Hil gon Buil							Clie	nt Sample l	ID:	co	mp-18	
	ole Area/ V	olume:	81 cm	2					Date Analy Anal			10/200 in Simp	
		r Type:	MCE 47mm							-	110	3	,50,,
		e size:	0.45						Scope Num			100	ΚV
Effe	ective Filte		1297						rating Volt	-			
	•	e type:	Dust						indicated I	_		25	KX
	Analysi	s type:	Dust						Screen M	-		20	KX
	Grid Acce	ptance	Yes	4 %					Grid_l	oox:		-	. Natural de la constante de l
Str < 5				nber of grids:		#1: 108		105		e Grid S		0.0111	
Str ≥51			Numbe	r of openings:	10	#2: 106	#4:	104	Total Are	a Analy	zed:	0.11	2
Total S				Str / sq	r ft	1.011E+	10		St	r / cn	n2 1	.088	E+07
Volume F Dilution		0.1 _m i 1000	Str	/sqrft >	:=5 =5	2.128E+	09		Str / cn	n2 >:	=5 2	291	E+06
Dignor	racioi	1000					~						
Str#:	SquareID:	Туре:	Structure:	Length	Width	Morph:		SAED:	EDS:	Photo:	Sketch	:	
Str#	Grid ID	Serp Other	Structure	Length	Width	Morph		SAED	EDS	Photo	Sketo	h	
1	A7-B5	С	C-F	5.00	0.60	x		х					
									\checkmark				
2		C	F	2.00	0.10	X		х					
									\checkmark				
3		С	В	4.50	0.15	x		X					
									\checkmark				
4		С	F	1.00	0.10	x		х					
1									\checkmark				
5		С	F	9.00	0.10	х		х					
•		•	•	3.03	0.10	^		^	✓				
		_	_	0.00	0.40	v		v					
6		С	F	0.60	0.10	Х		х					
									· <u> V</u>	LJ	LJ		
7		C	F	2.60	0.10	Х		Х		(-/			
									V				
8		С	F	0.60	0.10	X		Х	_	_			
1									\mathbf{V}				
9		С	F	0.90	0.10	х		Х					
1									V				
10		C	F	27.00	0.10	х		Х					
									\checkmark				
11		С	В	1.00	0.15				_		_		
		J	₩	,,,,,	0.,0					\Box			
42		^	~ F	4.00	۸ ۵۸				لسنا				
12		С	C-F	1.00	0.50				,1		\Box		

C - Chrysotile

NSD - No Structure Detected

TR - Tremolite

F - Fiber

CR - Crocidolite

B - Bundie

AN - Anthophyllite M - Matrix

AC - Actinolite

C - Cluster

Str#:	SquareID:	Туре:	Structure:	Length	Width	Morph:	SAED:	EDS:	Photo:	Sketch:
13		С	В	3.20	0.15					
14	D5	С	8	0.80	0.18					
15		c	В	0.70	0.12					
16		С	В	1.00	0.18					
17		C	F	1.90	0.10					
18		С	F	3.50	0.05					
19		С	F	1.00	0.10					
20		C	C-F	2.00	1.00	x	x			
21		С	F	0.80	0.05					
22	F5	С	В	12,60	0.12					
23		С	C-F	24.00	4.00					
24		С	В	2.00	0.12					
25		С	В	1.70	0.12					
26		С	F	2.00	0.10					
27		С	F	1.70	0.10					
28		С	F	0.60	0.10					
29		С	F	1.20	5.00					
30		С	F	2.20	0.10	x	x	<u>✓</u>		
31		С	C-F	5.50	0.60					
32		С	В	2.20	0.12					
33		С	F	1.10	0.10					
34		С	F	5.50	0.10					
						<u></u>		l. J		<u> </u>

C - Chrysotile

NSD - No Structure Detected

TR - Tremolite CR - Crocidolite F - Fiber

AN - Anthophyllite

B - Bundle

AC - Actinolite

M - Matrix C - Cluster

Str#:	SquareID:	Туре:	Structure:	Length	Width	Morph:	SAED:	EDS:	Photo:	Sketch:
35	H5	С	C-F	3.00	0.60					
36		С	F	2.30	0.05					
37		С	F	5.50	0.05					
38		С	F '	1.30	0.10					
39		С	C-B	17.00	3.00					
40		С	F	3.60	0.10	x	x			
41		С	В	1.00	0.20			V		
42	J5	С	F	0.80	0.10					
43		С	F	0.60	0.10					
44		С	F	2.00	0.10					
				٠						
45		С	C-F	15.00	0.30					
46		С	В	2.30	9.12					
47		С	F	1.50	0.10					
48	A8-B2	С	F	3.00	0.10					
49		С	M-B	15.00	0.12					
50		c	F	0.50	0.05	x	x	✓		
51		С	F	0.60	0.05					
52	D2	С	F	3.50	0.10					
53		С	F	0.70	0.10					
54		С	F	1.10	0.10					
55		С	C-F	1.20	0.40					
56	F2	С	F	5.20	0.10					
	- -		· 							

C - Chrysotile

NSD - No Structure Detected

TR - Tremolite

F - Fiber

CR - Crocidolite

B - Bundle

AN - Anthophyllite

M - Matrix

AC - Actinolite

C - Cluster

Str#:	SquareID:	Туре:	Structure:	Length	Width	Morph:	SAED:	EDS:	Photo:	Sketch:	
57		С	F	1.70	0.10						
58		C	F	1.80	0.10						
59		С	F	1.70	0.05						
60		С	В	1.80	0.22	x	x				
61		С	F	1.80	0.10			✓			
	112			24.00	0.20						
62	H2	С	В								
63		С	F	1.50	0.10		•				
64		С	В	1.90	0.12						
65		С	В	1.20	0.20						
66		c	F	0.50	0.10						
67		c	F	11.50	0.10						
68		С	C-F	2.00	0.70						
69		С	C-F	1.70	0.60						
70		С	F	2.00	0.05	X	х	E			
71	J2	С	В	3.00	0.20	X	X	✓			
72		С	В	5.10	0.15	x	x	~			
73		С	F	1.00	0.10						
74		c	F	6.20	0.10						
75		Ç	F	3.00	0.10						
		С		0.80	0.10						
76		L	F	0.80	UF.U						
									M407	55 008	

C - Chrysotile

NSD - No Structure Detected

TR - Tremolite

F - Fiber

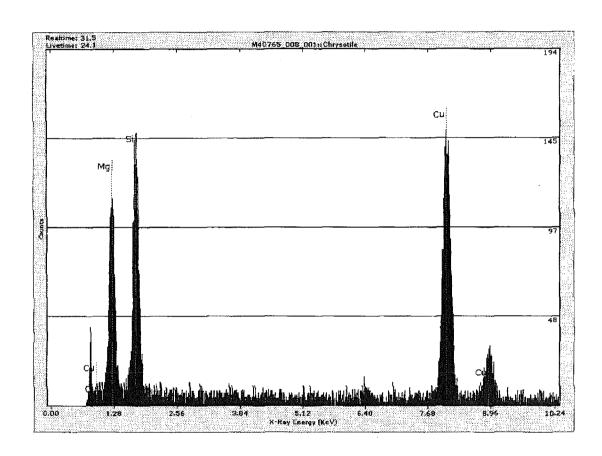
CR - Crocidolite

B - Bundle

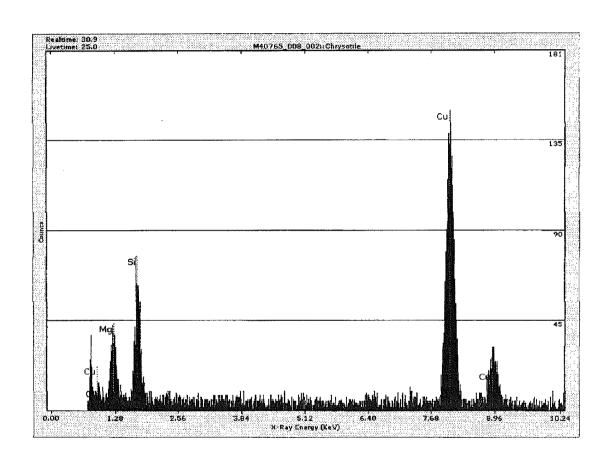
AN - Anthophyllite M - Matrix

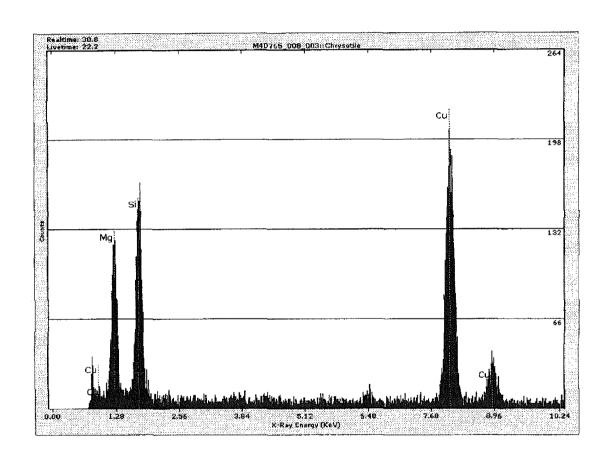
AC - Actinolite

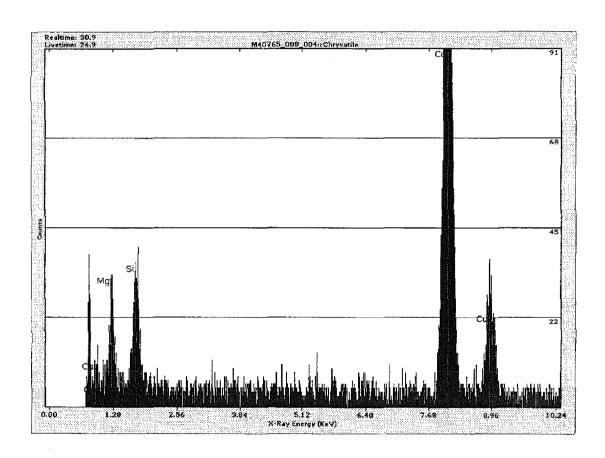
C - Cluster

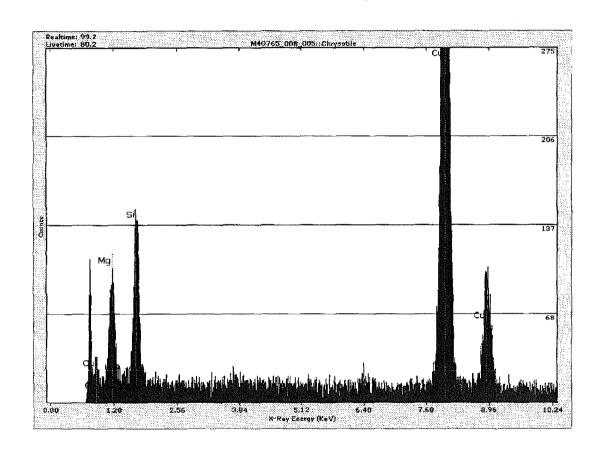


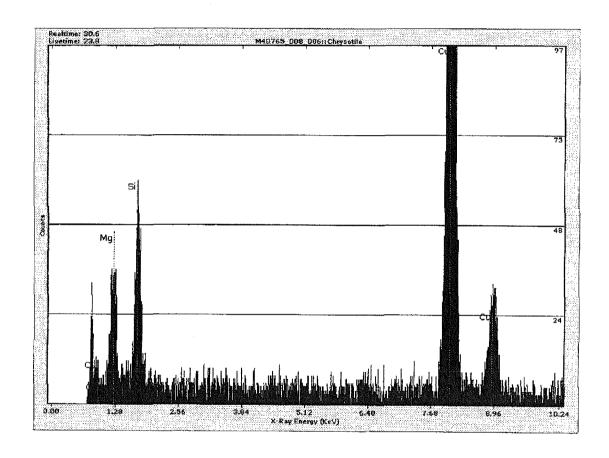
Page 6 of 25

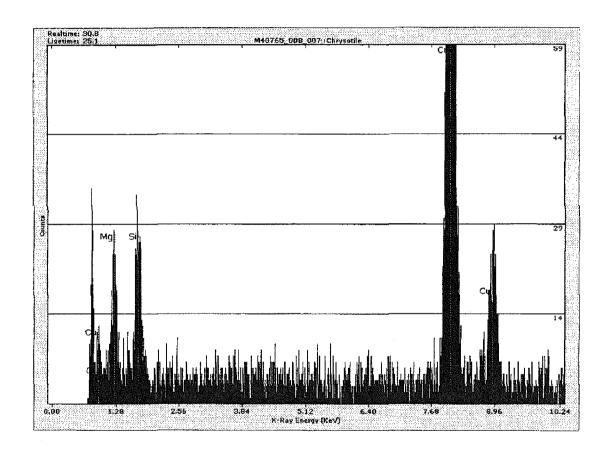


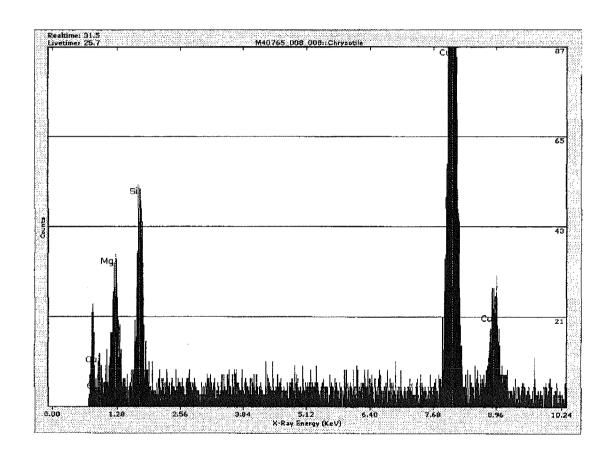


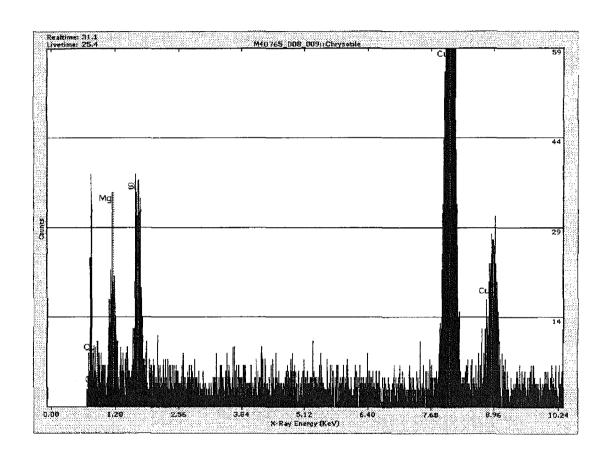


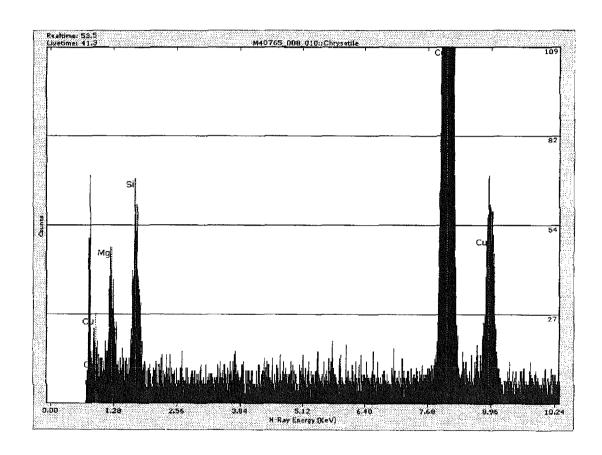


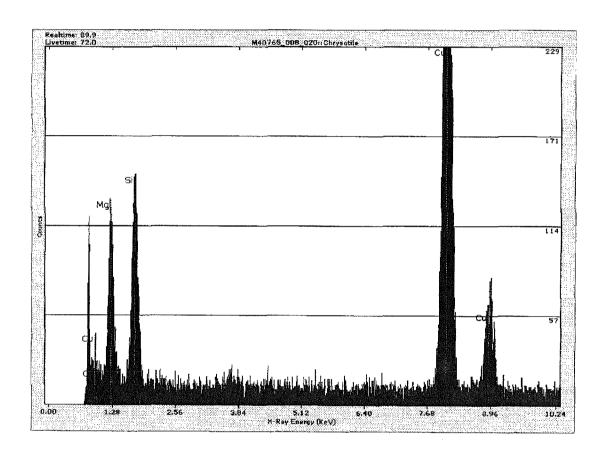


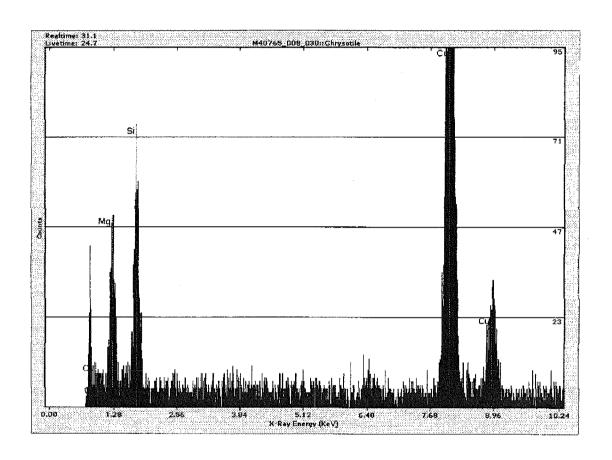


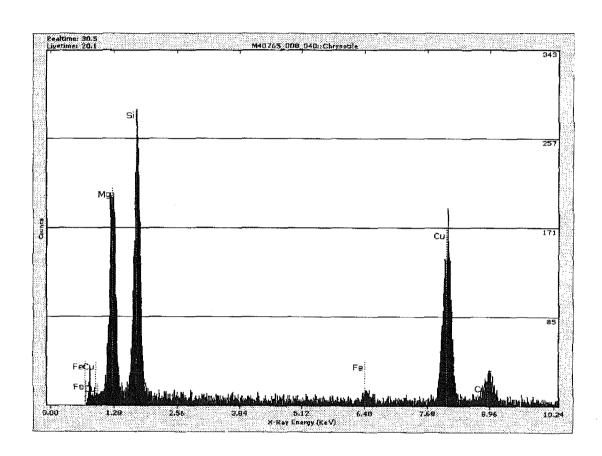


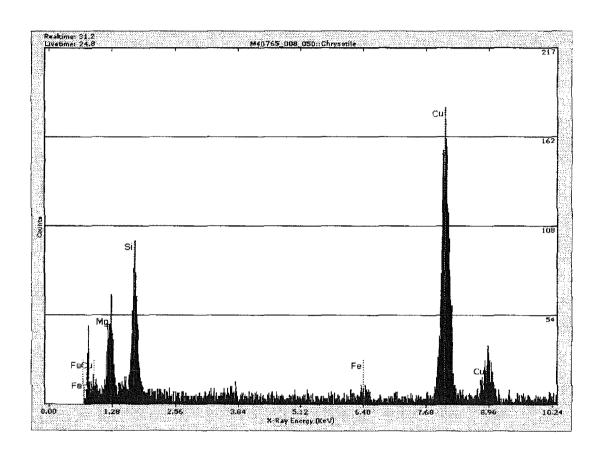


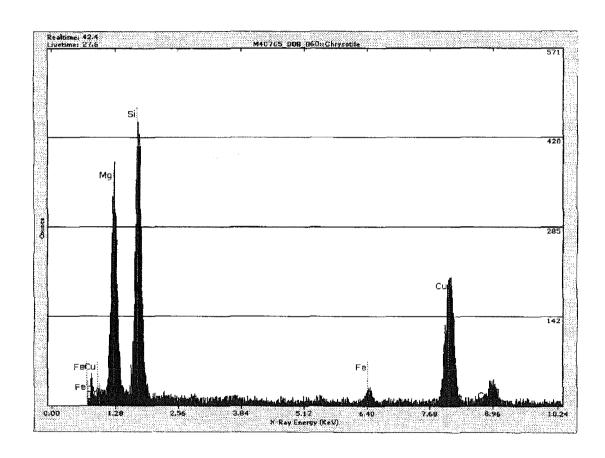


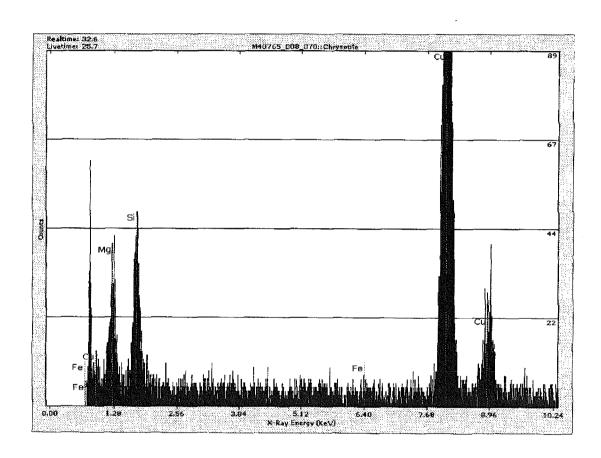


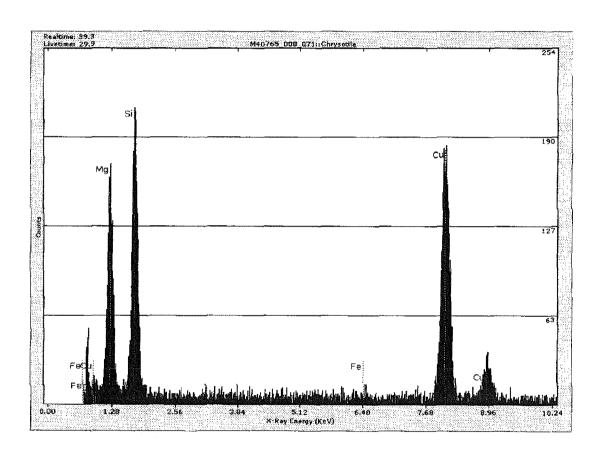












STATE OF OREGON PASSIVE DUST SAMPLE LOG SEPTEMBER 2006

Computing Center, University of Oregon; Eugene, Oregon September 13, 2006

Sample Number	Sample Location/Description	Photograph Number	Results
COMP- 18	1 st floor, corridor outside room 193, RJ Lee passive dust sampler above ceiling	13 16:25B	

SEND RESULTS TO:

Compass Environmental, Inc. 1751 McCollum Parkway
Kennesaw. Georgia 30144
Telephone: (770) 499-7127
Facsimile: (770) 423-7402

CHAIN OF CUSTODY

PROJECT NAME: DIES & Hile - Oregon Blogs.

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NAME OF ANALYTICAL LABORATORY: MR

ACTION TAKEN ON SAMPLES	SIGNATURE	PRINT NAME	مري THTLE	DATE/TIME	DATE/TIME TRANSFERRED
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